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Abstract of the disclosure:

Mini-proinsulin, its preparation and use

A mini-proinsulin, in which the amino acid Arg bridges the A and the B chain instead of the C chain, shows insulin activity and is suitable for the preparation of pharmaceuticals for the treatment of diabetes mellitus. It can furthermore be converted into an insulin derivative simply using trypsin, the B chain of which is lengthened by Arg. This can be converted into insulin using carboxypeptidase B. Advantageously, however, the mini-proinsulin can also be converted to insulin directly in a one-pot process.